

CLAIMS

1. (Currently amended) A system, comprising:
an accelerometer to measure tilt and rotation; and
a controller coupled to the accelerometer to predistort image data responsive to the tilt and the rotation such that the predistorted image data projects an undistorted keystone corrected projected image on a projection surface not perpendicular to a projection axis.
2. (Original) The system of claim 1 where the accelerometer is a two dimensional accelerometer.
3. (Original) The system of claim 1 where the controller calculates a horizontal angle responsive to the tilt and rotation.
4. (Currently amended) The system of claim 1 where the system projects the predistorted image data as an undistorted projected image displaying no keystone distortion on a the projection surface.
5. (Currently amended) A system, comprising:
position detecting means for detecting first and second positions; and
predistortion means for predistorting image data responsive to the first and second positions such that the predistorted image data projects an undistorted keystone distortion corrected projected image on a projection surface not perpendicular to a projection axis.
6. (Original) The system of claim 5 where the position detecting means is an accelerometer.
7. (Original) The system of claim 6 where the accelerometer is a two-dimensional accelerometer.
8. (Original) The system of claim 6 where the accelerometer is an inertial accelerometer.

9. (Original) The system of claim 6
where the accelerometer generates a tilt signal indicative of vertical tilt; and
where the accelerometer generates a rotation signal indicative of a horizontal rotation.
10. (Currently amended) A method, comprising:
automatically detecting a projector's position in two dimensions;
predistorting image data responsive to the projector's position such that the
predistorted image data projects ~~an undistorted~~ projected image without keystone distortion
on a projection surface not perpendicular to a projection axis.
11. (Original) The method of claim 10 where automatically detecting a projector's
position includes automatically detecting vertical tilt and horizontal rotation.
12. (Original) The method of claim 11 comprising calculating a vertical and horizontal
rotation angles from the vertical tilt and horizontal rotation.
13. (Original) The method of claim 10 where automatically detecting a projector's
position includes using an accelerometer.
14. (Original) The method of claim 10 where automatically detecting a projector's
position includes using a two dimensional accelerometer.
15. (Original) The method of claim 10 where automatically detecting a projector's
position includes using an inertial accelerometer.